

## CURRICULUM VITAE

### **Fereshteh Mohammadi Fatideh**

Asistant Reasearcher

Department of Nanotechnology

Nanobiotechnology Research Center

Avicenna Research Institute, Shahid Beheshti University, Evin, Tehran, Iran. P.O.Box: 19835-177

Telephone: +982177645144

Mobile: +989112356529

Email: [fereshteh.mohamadi@gmail.com](mailto:fereshteh.mohamadi@gmail.com) ,

### **Personal information:**

**Birth Date:** May 8<sup>th</sup>, 1979

**Gender:** Female

**Nationality:** Iranian

**Marital status:** single

### **Education and Qualifications:**

**B. Sc.:** (1999-2003) pure Chemistry, Guilan University, Rasht, Iran.

**M. Sc.:** (2004-2007) Inorganic Chemistry, Iran Universitu of Science & Technology, Tehran, Iran.

### **Career obtective**

Technical and scientific research activities in Inorganic chemistry, Solid state chemistry , Nanotechnology and Nanobiotechnology

### **Language skills**

Persian: native; English: fluently

## **Technical/Professional Skills & Competences**

**Mother tongue:** Persian

**Other language (languages):** English, good at both general & technical (chemistry)

**Social skills & competences:** Good communication skills

**Organizational skills & competences:** leadership, teamwork

**Technical skills & competences:** UV-Visible Spectroscopy, GC, FT-IR, HPLC

**Computer skills:** windows, office (excel, access, powerpoint, word), internet and searching, Chemistry Softwares (Gaussian 98, Hyperchem, HPLC, IsIs, XRD, SEM, AHP).

## **Research to Pics**

Research activities in Inorganic chemistry

## **Teaching Activities**

For two courses Teaching of general chemistry for B.S students in UAST

## **Work Experience**

production of carton plast (sheet,...of polymers) in Nafis Carton Plast Company ,Rasht, Iran (2003).

## **Research Experiences**

- Research Assistant in Departments of Nanotechnology, Semiconductor & Environment, Material & Energy Research Center, karaj, Iran (2005-2007)- research in the fields of chemistry ,biotechnology, biology, material and nanotechnology.
- Research Assistant in Departments of Material and chemistry & Environment , Niroo Research Institute, Tehran, Iran (2007-2009)- research in the fields of chemistry , material, nanotechnology in power Industry.
- Research Assistant in Departments of Chemistry and Petrochemistry, Research Institute of Petroleum Industry, Tehran, Iran (2009-2010)- preparation and formulation of material and research in the fields of inorganic chemistry , material, nanotechnology, fertilizer

## **Research interests**

1. Synthesis of TiO<sub>2</sub> nanoparticle (Nano powder and thin film)
2. Inorganic and Composite synthesis
3. Agriculture and food chemistry
4. Environmental chemistry

## **Specific Qualifications**

Chemistry research , Doing chemical Experiments , Analysis & getting conclusions

1. Preparation of metal oxide powder and thin film from sol-gel, methods
2. Clioquinol as a drug for Alzheimer disease
3. Fundamental of sol-gel technology and industrial applications
4. Monitoring organic compound in waste water with TiO<sub>2</sub> nano particle sensor
5. Preparation and formulation of chemical fertilizer with micronutrients (Fe, Mn, Zn) in experimental and pilot plants
6. Calcium carbonate and industrial applications in power industry
7. Research about bentonite, lime stone,... and industrial applications
8. Research about nonsulate and applications
9. Research about smart materials and their applications in power industry
10. Research about Nanobiotechnology and medical applications
11. Research about Nanoparticles drug delivery and their applications in cancer therapy

## **Publications**

Patent, Nano liquid sensor, No:45824

## **Conferences**

### **Foreign conferences:**

" Monitoring Organic Compound in Waste Water with Titanium Oxide Nano-Particle Sensor  
" The 3<sup>rd</sup> International Symposium on Advanced Ceramics, (Innovation of Ceramic Science and Engineering) December 11-15, 2006, Singapore.

### **Iranian conferences:**

1. "Sensor fabrication based on high chemical absorption and photocatalytic activity of TiO<sub>2</sub> thin film for purification of waste water" poster Presentation, in First International Congress on Nanoscience and Nanotechnology, December 18-20, 2006, Faculty of Engineering, Tehran University.
2. "Titanium Oxide Nano-Particle Sensor for removal water pollutants" poster Presentation, in First conference of chemistry and industrial applications, 2006, Esfahan University.
3. "Fundamental of sol-gel technology and industrial applications" poster Presentation, in the 2<sup>nd</sup> conference of Chemistry and Industry, 2006, Islamic Azad University, Eslamshahr unit.
4. "Sensor fabrication based on high chemical absorption and photocatalytic activity of TiO<sub>2</sub> thin film for removal of pyrrole", Oral Presentation, in the 2<sup>nd</sup> conference of nanotechnology, 2007, Kashan University.